

C17L

Note : For the information on delivery time, please consult YAMAHA Sales promotion division.

Robot ordering method

C17L - 50 - BK - 2050 - 3L - SR1-X - 20 - E^{Note 1} - R^{Note 2} - N - B^{Note 1}

Model	Lead designation	Brake	Stroke	Cable length	Applicable controller	Driver	Usable for CE	Regenerative unit	Inputs/Outputs selection	Battery
	50 : 50mm	No entry : No brakes BK : Brakes provided	1150 to 2050 (100mm pitch)	3L : 3.5m (Standard) 5L : 5m 10L : 10m	SR1-X RDX (see page 52)	-05 : 100W or less -10 : 200W -20 : 400 to 600W	No entry : Standard E : CE specification	No entry : Standard R : RG1	N : NPN P : PNP CC : CC-Link DN : DeviceNet PB : Profibus YC : YC-Link ^{Note 3}	No entry : None (Incremental specification) B : Battery (Absolute specification)

Note 1 : It will be a customer's choice.

Note 2 : Optional regenerative unit is required for YAMAHA-designated models and when operating a load with a large inertia.

Note 3 : Available only for the slave.

Basic specifications

AC servo motor output (W)	600	
Repeatability (mm) ^{Note 1}	+/-0.02	
Deceleration mechanism	Ball screw (Class C10)	
Ball screw lead (mm)	50	
Maximum speed (mm/sec) ^{Note 2}	1000	
Maximum payload (kg)	Horizontal	50
	Vertical	10
Rated thrust (N)	130	
Stroke (mm)	1150 to 2050 (100 pitch)	
Cable length (m)	3.5 (Standard), 5, 10	
Controller	Horizontal	SR1-X-20-R
	Vertical	SR1-X-20-R
Robot driver	Horizontal	RDX-20-RBR1
	Vertical	-
Degree of cleanliness	CLASS 10 ^{Note 3}	
Intake air (ℓ/min)	30 to 90 ^{Note 4}	

Note 1 : Repeatability for single oscillation.

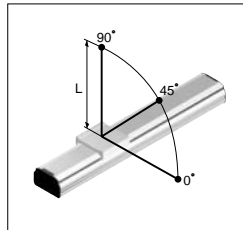
Note 2 : When the stroke exceeds 1850mm, although depending on the moving range, the ball screw may resonate (dangerous speed). If such resonance occurs, make an adjustment on the program to reduce the speed, using the maximum speed in the table on the right as a guide.

Note 3 : Per 1cf (0.1μm base), when the suction blower is used.

Note 4 : The necessary intake amount varies depending on the use conditions and environment.

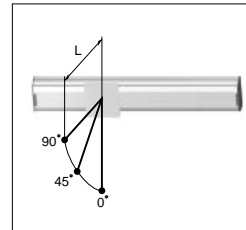
Stroke (mm)	Maximum speed (mm/sec)	Speed setting
1850	900	90%
1950	800	80%
2050	800	80%

Tolerable overhang amount ^{Note}



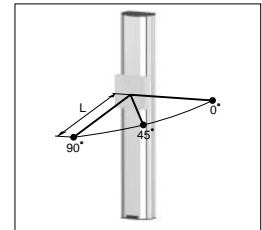
During horizontal use (Unit : mm)

	0°	45°	90°
Lead 50	10kg	760	865
	30kg	390	505
	50kg	245	335



During wall installation use (Unit : mm)

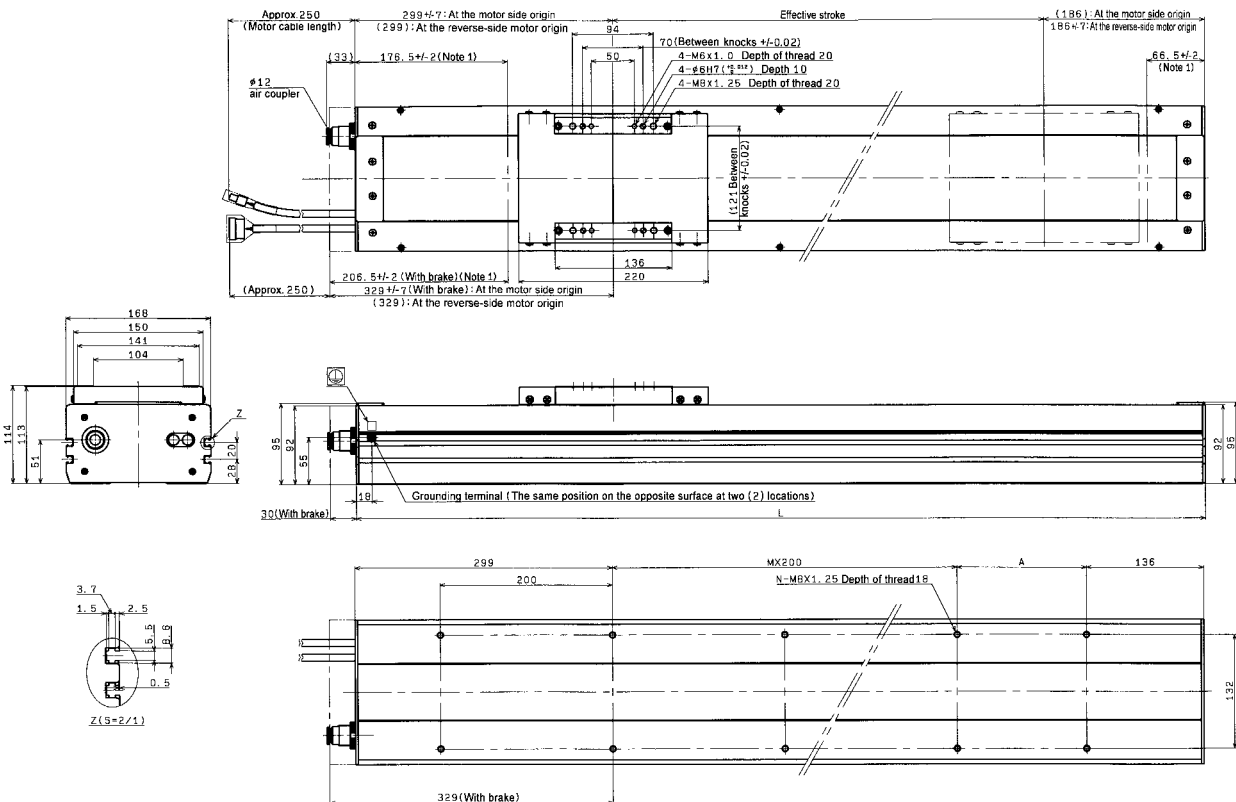
	0°	45°	90°
Lead 50	10kg	1465	845
	30kg	1300	480
	50kg	1205	310



During vertical use (Unit : mm)

	0°	45°	90°
Lead 50	2kg	3050	2155
	5kg	1180	835
	10kg	740	525

Note : Distance from center of slider top to center of gravity of object being transported.



Effective stroke	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050
L	1635	1735	1835	1935	2035	2135	2235	2335	2435	2535
A	200	100	200	100	200	100	200	100	200	100
M	5	6	6	7	7	8	8	9	9	10
N	16	18	18	20	20	22	22	24	24	26
Weight (kg) ^{Note 4}	39.1	41.2	43.2	45.2	47.3	49.3	51.3	53.4	55.4	57.4

Note 1 : Length from both ends to mechanical stopper position.

Note 2 : For basic functions, please refer to the brochure or contact YAMAHA Motor Co., Ltd.

Note 3 : The minimum bend radius of the motor cable is R50.

Note 4 : This is the weight of the model without a brake.

The weight of the model equipped with a brake is 1.5kg heavier than this value.